Building M82 – Old Navy Yard Former Police Station North Charleston, South Carolina February 3, 2020 Terracon Project No. EN197470



Prepared for:

Palmetto Railways Charleston, South Carolina

Prepared by:

Terracon Consultants, Inc. North Charleston, South Carolina

Inspected by:

Craig C. Langford (SC ASB-22775)





February 3, 2020

Palmetto Railways 540 East Bay Street Charleston, South Carolina 29403

Attn: Alec Thompson Phone: (843) 737-8440

Email: <u>athompson@palmettorail.com</u>

Re: Asbestos and Lead-Based Paint Survey Report

Building M82 - Old Navy Yard

Former Police Station

North Charleston, South Carolina Terracon Project No. EN197470

Dear Mr. Thompson:

Terracon Consultants, Inc. (Terracon) is pleased to present the results of the asbestos and lead-based paint survey performed January 13, 2020, of Building M82, former police station, located at the Old Navy Yard in North Charleston, South Carolina. We understand that this survey was requested due to the planned renovation or demolition of the building.

Terracon appreciates the opportunity to provide environmental consulting services. If you should have any questions regarding this report, or if you need assistance with bid documents or project oversight during the building renovation/demolition, please contact the undersigned at (843) 277-8402.

Sincerely,

Terracon Consultants, Inc.

Craig C. Langford, OHST Senior Industrial Hygienist Jeffrey A. Gurrie, CIH Authorized Project Reviewer

Materials

Terracon Consultants, Inc. 1450 Fifth Street, West North Charleston, South Carolina 29405 P (843) 884 1234 F (843) 884 9234 terracon.com



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EXECUTIVE SUMMARY

This executive summary is intended as an overview for the convenience of the reader. The report should be reviewed in its entirety prior to making any decisions regarding this site.

Terracon Consultants, Inc. (Terracon) conducted an asbestos and lead survey for Building M82 (former police station) located on the Old navy Yard in North Charleston, South Carolina. It was our understanding that Palmetto Railways plans to renovate the building. The purpose of this survey was to sample and identify lead-based paint, suspect asbestos-containing materials (ACM), and provide information regarding the identity, location, condition and approximate quantities of ACM in interior and exterior building components.

The survey was performed on January 13, 2020, by a South Carolina Department of Health and Environmental Control (SCDHEC) licensed asbestos inspector in general accordance with our proposal dated December 18, 2019, and the sampling protocols established in EPA 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA) and the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects.

Forty-one (41) bulk samples were collected from homogeneous areas of suspect ACM. Based on the results of laboratory analysis, the following suspect materials were identified as asbestos containing materials (ACMs) defined as containing >1% asbestos:

Non-friable caulking located on exterior doors; approximately 250 LF

Terracon recommends removal of the asbestos-containing materials by a South Carolina licensed asbestos abatement contractor prior disturbance of these materials during renovation of the building.

Six (6) paint-chip samples were collected from the components of the structure on the site. Five (5) sample results were above the EPA definition of lead paint of 0.5% and the SCDHEC 0.06% by weight threshold for disposal. Based on the testing all paints, except the exterior black hand rail paint, should be assumed to be lead-containing.

- White paint on exterior column,
- Black paint on exterior rails,
- Multiple paint layers on interior stairwell,
- Multiple layers on side exterior stair case

Federal, state and local regulations should be referred to in order to verify compliance before any actions are initiated on ACMs or LBP.

ASBESTOS AND LEAD-BASED PAINT SURVEY REPORT

BUILDING M82 – OLD POLICE STATION, OLD NAVY YARD NORTH CHARLESTON, SOUTH CAROLINA PROJECT NO. EN197470

INSPECTION DATE: January 13, 2020 REPORT DATE: February 3, 2020

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos and lead survey of building materials of Building M82 (Old Police Station) located in the Hospital District of the Old Navy Yard in North Charleston, South Carolina. The survey was conducted on January 13, 2020, by a South Carolina Department of Health and Environmental Control (SCDHEC) licensed building inspector in general accordance with our Proposal No PEN197470 Rev1 dated December 18, 2019, and Palmetto Rail Continuing Services Agreement dated November 1, 2019. The purpose of this survey was to sample and identify lead-based paint, suspect asbestos-containing materials (ACM), and provide information regarding the identity, location, condition and approximate quantities of ACM in interior and exterior building components.

Terracon understands that the building may be renovated or demolished but the exact plans are unknown. Environmental Protection Agency (EPA) regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation/demolition activities. NESHAP and SCDHEC requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

Suspect ACM was sampled in general accordance with the sampling protocols outlined in EPA Regulation 40 CFR 763 Subpart E763.86 (Asbestos Hazard Emergency Response Act, AHERA) and SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects. Interior and building components were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Although reasonable effort was made to survey accessible suspect materials, additional suspect but un-sampled materials could be located in walls, in voids or in other concealed areas. Samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM), as required.

[insert LBP paragraph]

2.0 BUILDING DESCRIPTION

The building is an approximately 6,500 ft² structure. The site consists of a three story building and a basement area with a partial crawlspace. The building once served as a North Charleston Police Sub-station. The exterior is constructed with a brick façade and has a pitched shingled





roof on the main portion of the building with a flat rolled roofing on the rear portion. Interior finishes are wallboard system, flooring materials, lay-in ceiling tiles panels, cove base materials, and flooring mastics. The 1st, 2nd, and 3rd floors were heated and cooled by interior wall mounted HVAC units. The basement was heated a cooled by a heat pump system with fiberglass (with mastic) duct system

Suspect ACMs sampled were:

- Wallboard system (drywall and joint compound)
- Stair Tread/mastics
- Ceiling Tiles
- Floor Tile/Mastics
- Cove Base/Mastics

- HAVC duct mastic
- Door and Window Caulking
- Roofing Shingles/felt
- Rolled roofing materials

Non-suspect ACMs include fiberglass insulation, rubber/silicon window caulking.

3.0 ASBESTOS SURVEY

The asbestos survey was conducted by SCDHEC licensed Asbestos Building Inspector Mr. Craig C. Langford (License No. ASB-22775 Exp. 07/09/20). A copy of Mr. Langford's license is included in Appendix D. The survey was conducted on January 13, 2020, in general accordance with the sampling protocols established by EPA Regulation 40 CFR 763 Subpart E 763.86, AHERA and SCDHEC R. 61-86.1. A summary of survey activities is provided below.

3.1 Regulatory Overview

An ACM is defined as any material containing asbestos of any type in an amount greater than one percent (1%). The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non friable ACM includes packing materials, gaskets, resilient floor coverings and asphalt roofing products containing more than 1 percent (%) asbestos. Category II non-friable ACM are non-friable materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation/demolition activities are considered regulated ACM (RACM). RACM must be removed prior to renovation or demolition activities.



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In the state of South Carolina, asbestos activities are regulated by the SCDHEC under the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects. The SCDHEC require that any asbestos-related activity conducted in a public building be performed by personnel licensed by the SCDHEC. The owner or operator must provide the SCDHEC with written notification of planned abatement and removal activities prior to the commencement of those activities. The SCDHEC requires 4 day notification for non-friable projects and 10 day notification for RACM projects. Asbestos abatement must be performed by SCDHEC-licensed asbestos abatement contractors. A SCDHEC-licensed Project Designer shall prepare a written abatement design for each abatement renovation project involving the removal of greater than 3,000 square, 1,500 linear, or 656 cubic feet of RACM. Third-party air monitoring must be conducted during the abatement of friable (regulated) ACM. The SCDHEC asbestos regulations can be found at http://www.scdhec.gov.

The Occupational Safety and Health Administration (OSHA) Asbestos Standard for Construction Industry (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc) for an eight-hour time weighted average. The OSHA standard classifies construction and maintenance activities, which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work. A full copy of the OSHA asbestos standard for general industry may be found at OSHA's website (www.osha.gov) and should be referenced for specific information.

3.2 Visual Assessment

Our survey activities began with visual observation of the exterior and interior of the building to identify apparent homogeneous areas of suspect ACM. A homogeneous area consists of building materials, which appear similar throughout in terms of color, texture and date of application. Building materials which were not identified as concrete, glass, wood, masonry, metal or rubber were considered suspect ACM.

Terracon lifted floor coverings in several areas, where possible, and did not observe additional flooring layers unless mentioned in this report; however, as Terracon could not assess beneath all floor covering in all areas, there may be isolated areas of additional suspect material present beneath existing flooring.

3.3 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material, which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

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3.4 Sample Collection

Based on our observations, bulk samples of suspect ACMs were collected in general accordance with SCDHEC and EPA sample collection protocols. Random samples of suspect materials were collected in each homogeneous area. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

The selection of sample locations and frequency of sampling was based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content.

A summary of the suspect ACM samples collected during the survey is presented in Table 1 in Appendix A. Sample locations are depicted on a Figure 1 in Appendix B.

3.5 Sample Analysis

Bulk samples were submitted under chain of custody to EMSL Analytical Laboratories in Kernersville, North Carolina for analysis by Polarized Light Microscopy (PLM) with dispersion staining techniques per EPA EPA/600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopical visual estimation. EMSL is accredited under the National Voluntary Laboratory Accreditation Program NVLAP.

Per the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects, negative results for non-friable organically bound (NOB) materials such as flooring and roofing shall be verified with at least one TEM analysis. The additional analysis was performed by TEM in accordance with EPA/600/R-93/116 Section 2.5.5.1.

3.6 Findings and Recommendations

Thirty-seven (37) bulk samples were collected from homogeneous areas of suspect ACM. Table 1 in the Appendix A summarizes the results of the visual inspection, estimated quantities, and laboratory analyses. A site diagram with sample locations (Figure 1) is included in Appendix B. Asbestos laboratory analytical reports, certificates of analysis with the chain of custody, are included in Appendix C. Based on the results of laboratory analysis, the following materials were identified as asbestos containing materials (ACMs) defined as containing >1% asbestos:

Non-friable caulking located on exterior doors; approximately 250 LF

If the ACMs listed above will be disturbed during renovation activities, they should be handled in accordance with the applicable OSHA standards and SCDHEC regulation 61-86.1 – Standards of Performance for Asbestos Projects. Written notification must be submitted to SCDHEC ten (10) business days prior to the renovation or demolition activities.



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If load-bearing walls are scheduled to be removed as part of this renovation project, a SCDHEC demolition permit is required. A copy of this report must be submitted to SCDHEC (Asbestos Section) at least ten (10) working days prior to demolition of load-bearing walls along with a demolition permit application and associated fees. Once processed SCDHEC will issue a permit. Federal, state and local regulations should be referred to in order to verify compliance before any actions are initiated on an ACM.

In accordance with OSHA's Asbestos Standard, the employer shall notify affected employees and contractors of the presence and location of asbestos-containing materials and test results. A full copy of the OSHA asbestos standard for general industry may be found at OSHA's website (www.osha.gov) and should be referenced for specific information.

It should be noted that suspect materials, other than those identified during the January 8, 2020 survey may exist within the structure. Should suspect materials other than those which were identified during this survey be uncovered during or prior to the abatement and demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or refute their asbestos content. Should future sampling indicate that the other material is asbestos containing, Terracon recommends removal of the asbestos-containing materials by a South Carolina licensed asbestos abatement contractor prior to renovation/demolition of the building.

4.0 LEAD-BASED PAINT SURVEY

4.1 Regulatory Overview

Lead is regulated by the EPA, SCDHEC and OSHA. The EPA and SCDHEC regulate lead use, removal, and disposal, and OSHA regulates lead exposure to workers. The EPA defines LBP as paint, varnish, stain, or other applied coating that contains lead equal to or greater than 1.0 mg/cm², 5,000 mg/kg, or 0.5% by dry weight as determined by laboratory analysis. The SCDHEC regulations 61-107.19 require that painted demolition debris with a lead concentration greater than 0.06% by weight be disposed in a permitted Class II landfill. For the purpose of the OSHA lead standard, lead includes metallic lead, all inorganic lead compounds, and organic lead soaps. The complete OSHA standard for compliance can be found on OSHA's website (www.osha.gov). A synopsis of the OSHA regulations (29 CFR 1926.62) and the applicability are as follows:

The OSHA Lead Standard for Construction (29 CFR 1926.62) applies to all construction work where an employee may be occupationally exposed to lead. All work related to construction, alteration, or repair (including painting and decorating) is included. The lead-in-construction standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal and other workplace conditions.





Under this standard, construction includes, but is not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present
- Removal or encapsulation of materials containing lead
- New construction, alteration, repair, or renovation of structures, substrates, or portions containing lead, or materials containing lead
- Installation of products containing lead
- Lead contamination/emergency clean-up
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed
- Maintenance operations associated with construction activities described above

4.2 Sampling and Analytical Protocol

Mr. Langford of Terracon conducted the lead-based paint (LBP) sampling on January 8, 2020. The LBP sampling was conducted by collecting paint chip samples. The paint chip samples were collected from painted or lacquered surfaces of building components likely to contain LBP, based on apparent date of application. The paint samples were collected down to the surface substrate so as to include any underlying paint systems in the analysis. The random paint chip samples were selected based on current paint schemes and may not be inclusive of old paint systems covered with paneling, or existing painted systems. The paint chip samples were submitted to an ELAP accredited laboratory for analysis of lead by NIOSH Method 7082M (atomic absorption).

4.3 Findings and Recommendations

Six (6) paint-chip samples were collected from the components of the structure on the site. Five (5) sample results were above the EPA definition of lead paint of 0.5% and the SCDHEC 0.06% by weight threshold for disposal. Based on the testing all paints, except the exterior black hand rail paint, should be assumed to be lead-containing. The following paints were tested and found to contain lead:

- White paint on exterior column,
- Black paint on exterior rails,
- Multiple paint layers on interior stairwell,
- Multiple layers on side exterior stair case

Painted demolition debris may be disposed in a C&D Landfill. SCDHEC regulations require that the lead painted demolition debris be disposed in a permitted Class II landfill. Landfills should be contacted to determine their specific disposal requirements. Metal components painted with lead-based paint may be recycled; however, the recycler should be contacted to determine their specific requirements.



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The South Carolina Department of Environmental Control (SCDHEC) regulations require that painted demolition debris with a lead concentration greater than 0.06% by weight or 0.7 mg/cm² be disposed in a permitted Class II landfill. However, coatings that are delaminated, deteriorated, or flaking must be evaluated against the Toxicity Characteristic under state and federal hazardous waste management regulations. Lead-based paint is defined in SC Regulation 61-107.9, "Solid Waste Landfills and Structural Fill." The hazardous waste Toxicity Characteristic is defined in the SC Hazardous Waste Management Regulation 61-79, at § 261.24, "Toxicity Characteristic."

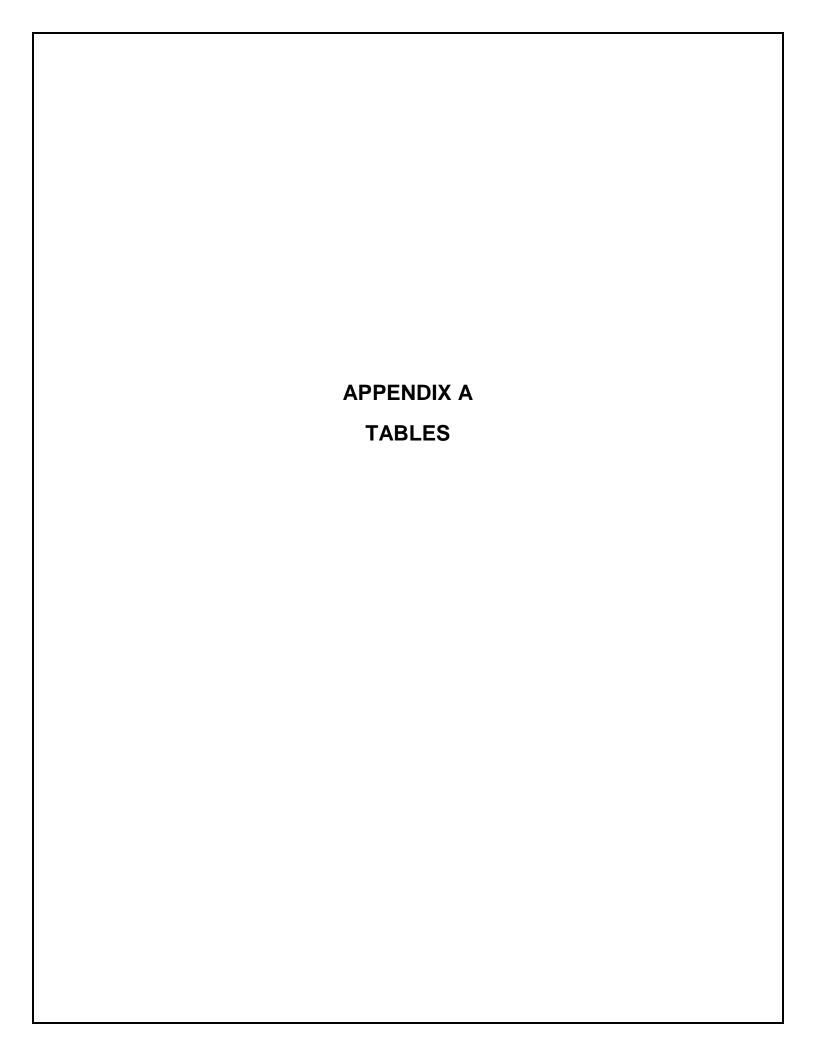
A summary of the lead paint laboratory results is presented in Table 2 in Appendix A. The analytical report is included in Appendix B.

5.0 LIMITATIONS / GENERAL COMMENTS

This survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the renovation areas. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date.

This report has been prepared on behalf of and exclusively for use by Palmetto Railways for specific application to their project as discussed. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary.



Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	НА	Classification	Friable/Non- Friable & Current Condition	Estimated Quantity (Square Feet)
WB3-01	3rd Floor	PLM	None Detected					
WB3-02	3rd Floor	PLM	None Detected	Drywall	HA-01	Miscellaneous		
WB3-03	3rd Floor	PLM	None Detected					
WB3-01	3rd Floor	PLM	None Detected				Friable/Good	2.800 SF
WB3-02	3rd Floor	PLM	None Detected				Friable/Good	2,000 31
WB3-03	3rd Floor	PLM	None Detected	Joint Compound	HA-02	Surfacing		
WB3-04	3rd Floor	PLM	None Detected					
WB3-05	3rd Floor	PLM	None Detected					
CT3-01	3rd Floor	PLM	None Detected					
CT3-02	3rd Floor	PLM	None Detected	Ceiling Tile	HA-03	Miscellaneous	Friable/Damaged	1,600 SF
CT3-03	3rd Floor	PLM	None Detected					
CB3-01	3rd Floor	PLM	None Detected					
CB3-02	3rd Floor	PLM	None Detected	Cove Base	HA-04	HA-04 Miscellaneous HA-05 Miscellaneous	Non-friable/Good	
CB3-03	3rd Floor	TEM	None Detected					200 LF
CB3-01	3rd Floor	PLM	None Detected	Mastic associated with	HA-05			
CB3-02	3rd Floor	PLM	None Detected	HA-04				
CB3-03	3rd Floor	TEM	None Detected					
FT3B-01	3rd Floor	PLM	None Detected					
FT3B-02	3rd Floor	PLM	None Detected	12" Black Floor Tile	HA-06 Miscellaneous	Miscellaneous	Non-friable/Good	
FT3B-03	3rd Floor	TEM	None Detected					700 SF
FT3B-01	3rd Floor	PLM	None Detected					700 31
FT3B-02	3rd Floor	PLM	None Detected	Mastic associated with HA-06	HA-07	Miscellaneous	Non-friable/Good	
FT3B-03	3rd Floor	TEM	None Detected	- 11A-00				
FT3-01	3rd Floor	PLM	None Detected					
FT3-02	3rd Floor	PLM	None Detected	12" White Floor Tile	HA-08	Miscellaneous	Non-friable/Good	
FT3-03	3rd Floor	TEM	None Detected					600 SF
FT3-01	3rd Floor	PLM	None Detected	Mostic Associated with				000 SF
FT3-02	3rd Floor	PLM	None Detected	Mastic Associated with HA-08	HA-09	Miscellaneous	Non-friable/Good	
FT3-03	3rd Floor	TEM	None Detected	11/1 00				
FT3G-01	3rd Floor	PLM	None Detected	12" Off White/Gray Floor				
FT3G-02	3rd Floor	PLM	None Detected	Tile	HA-10	Miscellaneous	Non-friable/Good	
FT3G-03	3rd Floor	TEM	None Detected	THE				500 SF
FT3G-01	3rd Floor	PLM	None Detected	Montin Appropriate design				500 55
FT3G-02	3rd Floor	PLM	None Detected	Mastic Associated with HA-09	HA-11	Miscellaneous	Non-friable/Good	
FT3G-03	3rd Floor	TEM	None Detected	11/2-03				

Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	НА	Classification	Friable/Non- Friable & Current Condition	Estimated Quantity (Square Feet)	
ST1-01	Stairs	PLM	None Detected						
ST1-02	Stairs	PLM	None Detected	Stair Tread (Line)	Stair Tread (Line) H	HA-12	Miscellaneous	Non-friable/Good	
ST1-03	Stairs	TEM	None Detected	1				500.05	
ST1-01	Stairs	PLM	None Detected					500 SF	
ST1-02	Stairs	PLM	None Detected	Mastic Associated with HA-12	HA-13	Miscellaneous	Non-friable/Good		
ST1-03	Stairs	TEM	None Detected	ΠA-12					
ST2-01	Stairs	PLM	None Detected						
ST2-02	Stairs	PLM	None Detected	Stair Trend (Rut)	HA-14	Miscellaneous	Non-friable/Good		
ST2-03	Stairs	TEM	None Detected	1				300 SF	
ST2-01	Stairs	PLM	None Detected	14 at 1 at 1 at 1				300 SF	
ST2-02	Stairs	PLM	None Detected	Mastic Associated with HA-14	HA-15	Miscellaneous	Non-friable/Good		
ST2-03	Stairs	TEM	None Detected	ΠA-14					
WB-01a	2nd Floor	PLM	None Detected	Drywall					
WB-02a	2nd Floor	PLM	None Detected	Drywall			ellaneous		
WB-03a	2nd Floor	PLM	None Detected	Drywall					
WB-01	2nd Floor	PLM	Insufficient Sample	Drywall	114.40	Minnellander			
WB-02	2nd Floor	PLM	Insufficient Sample	Drywall	HA-16	Miscellaneous			
WB-03	2nd Floor	PLM	Insufficient Sample	Drywall					
WB-04	2nd Floor	PLM	None Detected	Drywall					
WB-09	1st Floor	PLM	None Detected	Drywall					
WB-01	2nd Floor	PLM	None Detected	Joint Compound			Friable/Good	6,400	
WB-02	2nd Floor	PLM	None Detected	Joint Compound					
WB-03	2nd Floor	PLM	None Detected	Joint Compound					
WB-04	2nd Floor	PLM	None Detected	Joint Compound					
WB-05	1st Floor	PLM	None Detected	Joint Compound	HA-17	Surfacing			
WB-06	1st Floor	PLM	None Detected	Joint Compound					
WB-07	1st Floor	PLM	None Detected	Joint Compound					
WB-08	1st Floor	PLM	None Detected	Joint Compound					
WB-09	1st Floor	PLM	None Detected	Joint Compound					
FT2-01	2nd Floor	PLM	None Detected						
FT2-02	2nd Floor	PLM	None Detected	12" Gray Floor Tile	HA-18	Miscellaneous	Non-friable/Good		
FT2-03	2nd Floor	TEM	None Detected	1				800 SF	
FT2-01	2nd Floor	PLM	None Detected	Mantin Associated 20				800 SF	
FT2-02	2nd Floor	PLM	None Detected	Mastic Associated with HA-18	HA-19	Miscellaneous	Non-friable/Good		
FT2-03	2nd Floor	TEM	None Detected	11A-10					
CB2-01	2nd Floor	PLM	None Detected						
CB2-02	2nd Floor	PLM	None Detected	Cove Base & Mastic	HA-20	Miscellaneous	Non-friable/Good	500 LF	
CB2-03	2nd Floor	TEM	None Detected]					

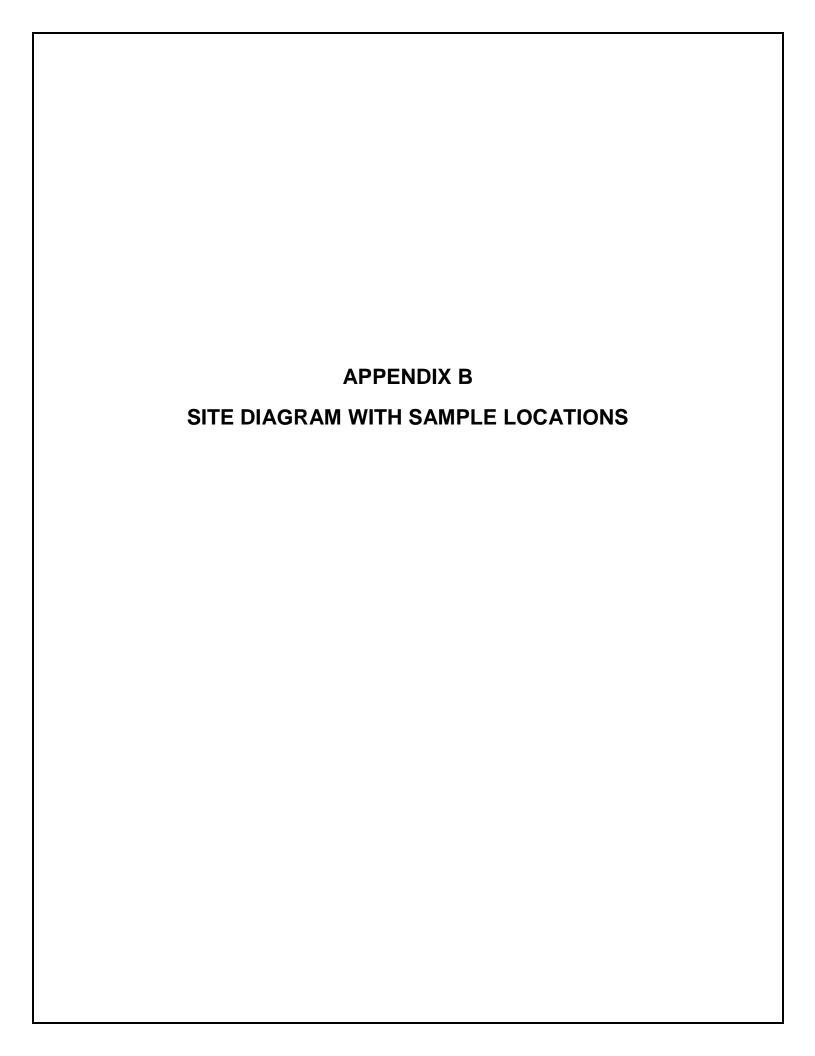
Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	НА	Classification	Friable/Non- Friable & Current Condition	Estimated Quantity (Square Feet)
FT1-01	1st Floor	PLM	None Detected					
FT1-02	1st Floor	PLM	None Detected	12" White Floor Tile	HA-21	Miscellaneous	Non-friable/Good	
FT1-03	1st Floor	TEM	None Detected					800 SF
FT1-01	1st Floor	PLM	None Detected	Mastic Associated with				000 31
FT1-02	1st Floor	PLM	None Detected	HA-21	HA-22	Miscellaneous	Non-friable/Good	
FT1-03	1st Floor	TEM	None Detected	11/4-21				
FT1-01	1st Floor	PLM	None Detected					
FT1-02	1st Floor	PLM	None Detected	12" Black Floor Tile	HA-23	Miscellaneous	Non-friable/Good	
FT1-03	1st Floor	TEM	None Detected					800 SF
FT1-01	1st Floor	PLM	None Detected					800 SF
FT1-02	1st Floor	PLM	None Detected	Mastic Associated with HA-23	HA-24	Miscellaneous	Non-friable/Good	
FT1-03	1st Floor	TEM	None Detected					
CT-01	2nd Floor	PLM	None Detected	Ceiling Tile				
CT-02	1st Floor	PLM	None Detected	Ceiling Tile	HA-25	Miscellaneous	Non-friable/Good	3,200 SF
CT-03	Basement	PLM	None Detected	Ceiling Tile				
WBB-01	Basement	PLM	None Detected					
WBB-02	Basement	PLM	None Detected	Daniel I	114.00	Miscellaneous		
WBB-03	Basement	PLM	None Detected	- Drywall	HA-26			
WBB-04	Basement	PLM	None Detected					
WBB-01	Basement	PLM	None Detected				Friable/Good	3,500 SF
WBB-02	Basement	PLM	None Detected					
WBB-03	Basement	PLM	None Detected	Joint Compound	HA-27	Surfacing		
WBB-04	Basement	PLM	None Detected	1		_		
WBB-05	Basement	PLM	None Detected					
RS-01	Pitched Roof	PLM	None Detected	Shingle				
RS-02	Pitched Roof	PLM	None Detected	Shingle	HA-28	Miscellaneous	Non-friable/Good	
RS-03	Pitched Roof	TEM	None Detected	Shingle	20			0.500.05
RS-01	Pitched Roof	PLM	None Detected	Felt Felt				2,500 SF
RS-02	Pitched Roof	PLM	None Detected		HA-29	Miscellaneous	Non-friable/Good	
RS-03	Pitched Roof	TEM	None Detected	Felt	25			
DC-01	Door	PLM	4% Chrysotile	Door Caulking				
DC-02	Door	PLM	4% Chrysotile	Door Caulking	HA-30	Miscellaneous	Non-friable/Good	250 LF
DC-03	Door	TEM	Poitive Stop	Door Caulking				

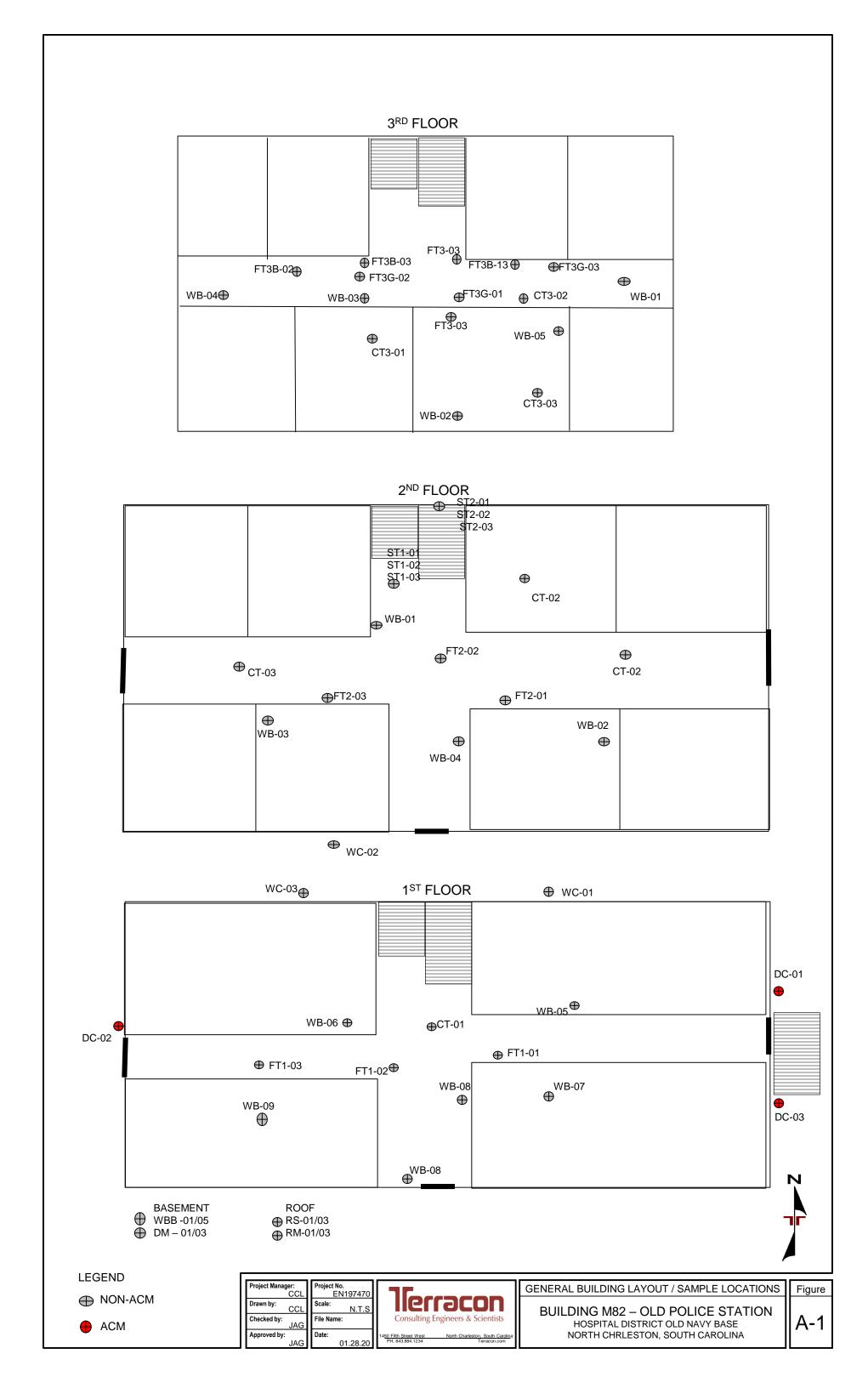
Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	НА	Classification	Friable/Non- Friable & Current Condition	Estimated Quantity (Square Feet)
WC-01	Windows	PLM	Non-Detected	Window Caulking				
WC-02	Windows	PLM	Non-Detected	Window Caulking	HA-31	Miscellaneous	Non-friable/Good	700 LF
WC-03	Windows	TEM	Non-Detected	Window Caulking				
RM-01	Flat Roof	PLM	Non-Detected	Roof Material				
RM-02	Flat Roof	PLM	Non-Detected	Roof Material	HA-32	Miscellaneous	Non-friable/Good	1,400, SF
RM-03	Flat Roof	TEM	Non-Detected	Roof Material				
RM-01	Flat Roof	PLM	Non-Detected	Felt		Miscellaneous	Non-friable/Good	1,400, 31
RM-02	Flat Roof	PLM	Non-Detected	Felt	HA-33			
RM-03	Flat Roof	TEM	Non-Detected	Felt				
DM-01	Basement	PLM	Non-Detected	Duct Mastic		Miscellaneous Non-friable/Go		
DM-02	Basement	PLM	Non-Detected	Duct Mastic	HA-34		Non-friable/Good	500 SF
DM-03	Basement	TEM	Non-Detected	Duct Mastic				
	Quantities liste HA - Homogene	3) Quan	estimates to be used	d shaded items are idential for inspection purposes could not be used in const	only and sh		or all other uses.	
	PLM - Polarized Lig	ht Microscopy				SF - Square Feet LF - Linear Feet		

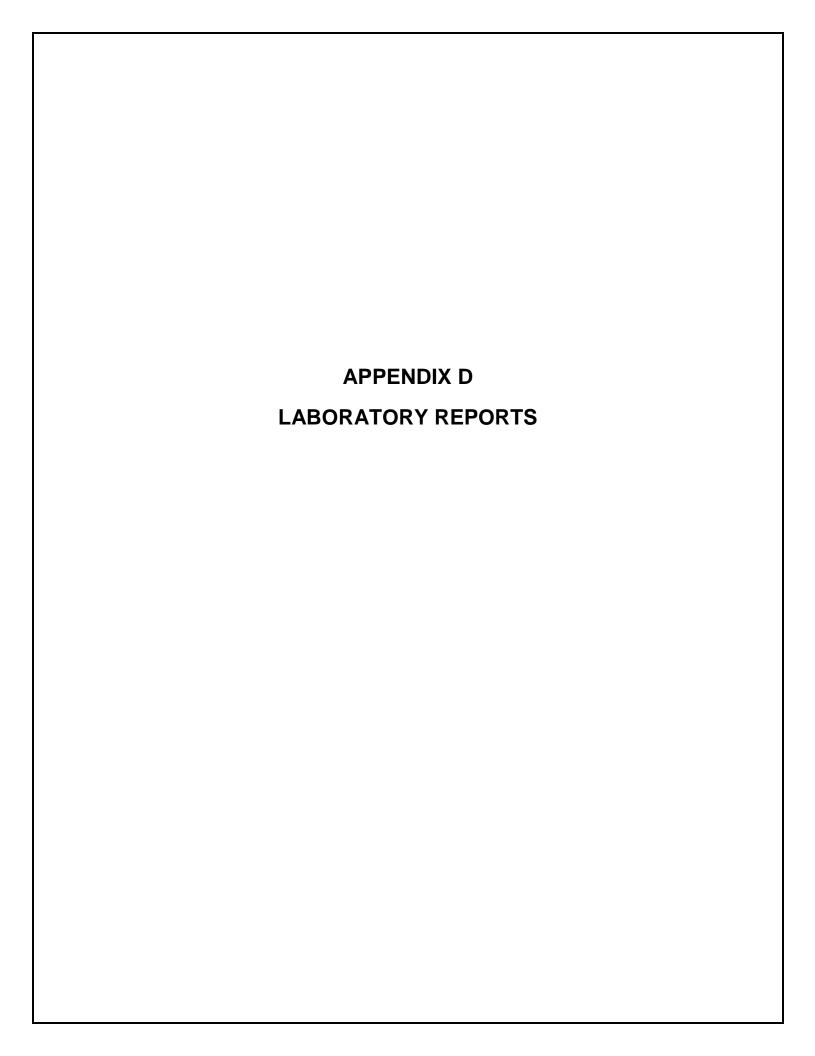
Sample Number	Description	Location	Lab Results % wt
Pb-01	White Paint	White Column	0.12%
Pb-02	Black Paint	Exterior Rail	0.58%
Pb-03	Multiple Colors (white)	Staircase (Interior)	1.10%
Pb-04	Door Frame	Door Frame	0.26%
Pb-05	Black Paint	Hand Rail (Exterior Stair)	<0.0096
Pb-06	Multiple Colors (white)	Exterior Stair	19.00%

Notes:

- 1) Results above the SCDHEC regulatory limit (0.06%) must be disposed of properly.
 - 2) Results in BOLD face were found above action levels.
 - 3) OSHA Lead in Construction standard must be followed.
 - 4) Please refer to sample diagrams for sample locations.







OrderID: 412000411



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

412000411

EMSL ANALYTICAL, INC. 706 GRALIN STREET KERNERSVILLE, NC 27284

> PHONE: 336-992-1025 FAX: 336-992-4175

Street: 1450 Fifth Street W	Company : Terracon			EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**			
City: North Charleston State/Province: SC Zip/Postal Code: 29405 Country: US							
Report To (Name): Craig Langford Telephone \$: 843-442-6858 Project Name/Number: EM R7 39 M 82 Please Provide Results:		State/Province: SC					
Telephone #: 843-442-6658				. 25405	oouniny. oo		
Project Name/Number: FM 97 39 M 87 Please Provide Results: Fax Email Purchase Order: U.S. State Samples Taken: SC Turnaround Time (TAT) Options* - Please Check 3 Hours 6 Hours 24 Hrs 48 Hrs 13 Days 40 Days 5 Days 10 Days 10 Days 10 Days 14 Hrs 148 Hrs 148 Hrs 15 Days 10 D				araia lan afand@taur			
Please Provide Results:		97291 MEZ	Email Address:	craig.iangrord@terra	icon.com		
S Hours	Please Provide Results:	ax Email Purchase (Order:	U.S. State Samples	s Taken: SC		
For TEM Art Shours, hours, please call shead to schedule. There is a premium things for 3 Hour TEM AFEERA or IT AT. You will be asked to sign an authorization form for this service. Analysis completed an accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. PCM - AIr							
an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analysical Price Guide. PCM. AIr NIOSH 7400 NIOSH 740				☐ 4 Days ☐ 5	Days 10 Days		
CM - Air	*For TEM Air 3 hours/6 hours, please an authorization form for this s	call ahead to schedule.*There is a p ervice. Analvsis completed in acco	oremium charge for 3 Hour TE rdance with EMSL's Terms a	EM AHERA or EPA Level II and Conditions located in the	TAT. You will be asked to sign a Analytical Price Guide		
AHERA 40 CFR, Part 763			The state of the s		o randiyalodi i inco Guido.		
P.M. Bulk (reporting limit)	☐ NIOSH 7400	☐ AHERA 4	0 CFR, Part 763		ASTM D 5755		
PLM EPA 600/R-93/116 (<1%) ISO 10312 Soil/Rock/Vermiculitie PLM EPA NOB (<1%) PLM EPA NOB (<1%) PLM EPA NOB (<1%) PLM CARB 435 - A (0.25% sensitivity) 400 (<0.25%) 1000 (<0.1%) NYS NOB 198.4 (non-friable-NY) TEM CARB 435 - B (0.1% sensitivity) 1000 (<0.25%) 1000 (<0.1%) NYS NOB 198.4 (non-friable-NY) TEM CARB 435 - B (0.1% sensitivity) 1000 (<0.25%) 1000 (<0.1%) TEM Mass Analysis-EPA 600 sec. 2.5 EPA Protocol (Semi-Quantitative) PEM CARB 435 - B (0.1% sensitivity) TEM CARB 435 -	☐ w/ OSHA 8hr. TWA	☐ NIOSH 74	102	☐ Wipe - ASTI	M D6480		
PLM EPA NOB (<1%) TEM = PA NOB PLM CARB 435 - A (0.25% sensitivity) Point Count PLM CARB 435 - B (0.1% sensitivity) Point Count w/Grav/metric Chatfield SOP TEM CARB 435 - B (0.1% sensitivity) TEM CARB 435	PLM - Bulk (reporting limit)	☐ EPA Leve	111	☐ Carpet Soni	cation (EPA 600/J-93/167)		
Point Count 400 (<0.25%) 1000 (<0.1%) NYS NOB 198.4 (non-friable-NY) TEM CARB 435 - B (0.1% sensitivity) 1000 (<0.25%) 1000 (<0.1%) TEM Mass Analysis-EPA 600 sec. 2.5 TEM PARDE PEPA Protocol (Semi-Quantitative) 1200 (<0.25%) 1000 (<0.1%) TEM Mass Analysis-EPA 600 sec. 2.5 TEM Protocol (Semi-Quantitative) 1200 (<0.25%) 1000 (<0.1%) TEM Mass Analysis-EPA 600 sec. 2.5 TEM Protocol (Semi-Quantitative) 1200 (<0.25%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 1200 (<0.1%) 120	X PLM EPA 600/R-93/116 (<1%) ISO 10312	2				
400 (<0.25%) 1000 (<0.1%) NYS NOB 198.4 (non-friable-NY) TEM CARB 435 - B (0.1% sensitivity) 1000 (<0.1%) Chatfield SOP TEM Mass Analysis-EPA 600 sec. 2.5 EPA Protocol (Semi-Quantitative) TEM Mass Analysis-EPA 600 sec. 2.5 EPA Protocol (Semi-Quantitative) PEM Protocol (Semi	☐ PLM EPA NOB (<1%)			☐ PLM CARB	435 - A (0.25% sensitivity)		
Point Count W/Gravimetric Chatfield SOP TEM CARB 435 - C (0.01% sensitivity) 400 (<0.25%) 1000 (<0.1%) TEM Mass Analysis-EPA 600 sec. 2.5 TEM Protocol (Semi-Quantitative) TEM Protocol (Semi-Quantitative) EPA Protocol (Semi-Quantitative) EPA Protocol (Semi-Quantitative) EPA Protocol (Quantitative) EPA Protocol (Qu			NOB	☐ PLM CARB	435 - B (0.1% sensitivity)		
400 (<0.25%) 1000 (<0.1%) TEM Mass Analysis-EPA 600 sec. 2.5 EPA Protocol (Semi-Quantitative) NYS 198.1 (friable in NY) TEM — Water: EPA 100.2 EPA Protocol (Quantitative) Dithers > 10 pm Waste Drinking Dither: Drinking Other: All Fiber Sizes Waste Drinking Dither: Drinking Drink	The state of the s			the second secon			
NYS 198.1 (friable in NY) TEM - Water: EPA 100.2 Drinking Other: Other: NIOSH 9002 (<1%) NIOSH 9002 (<1%) All Fiber Sizes Waste Drinking Drinking Other: NIOSH 9002 (<1%) Check For Positive Stop - Clearly Identify Homogenous Group							
NYS 198.6 NOB (non-friable-NY) Fibers > 10 \(\text{pm} \) Waste Drinking Other: NIOSH 9002 (<1%) All Fiber Sizes Waste Drinking Check For Positive Stop - Clearly Identify Homogenous Group Samplers Name: Samplers Signature: Sample # Sample Description HA # (Bulk) Sampled WB 3 - ot 05 Dry any Torit Comp and 3 fd Fbor HA CT 3 - 01/03 Calling the (2 x 4) 3 fd Fbor HA CB 3 - 01/03 Cove Base Mastin HA							
NIOSH 9002 (<1%) All Fiber Sizes Waste Drinking Check For Positive Stop - Clearly Identify Homogenous Group							
Check For Positive Stop - Clearly Identify Homogenous Group Samplers Name: Sample # Sample Description Volume/Area (Air) Date/Time Sample # Sample Description HA # (Bulk) WB 3 - ot los Dry any Torrit Comp and 3 the Floor HA I CT 3 - ot los Corling the (2x4) 3 rea floor CB 3 - ot los Cove Base (mastra) FT3 B- ot los p" floor tile Brack (mastrix FT3 - ot los p" floor tile Brack (mastrix FT3 - ot los p" floor tile Brack (mastrix FT3 - ot los p" floor tile Brack (mastrix FT3 - ot los p" floor tile Brack (mastrix FT3 - ot los p" floor tile Brack (mastrix FT3 - ot los pt ff Carry (mastrix ST2 - ot los starr trad (por Line) ST2 - ot los starr trad (por Line) Glient Sample # (s): Received (Lab): The first part of Samples: 47 Total # of Samples: 47 Time: 1630 Received (Lab): Time: 1630 Date: 1/15/20 Time: 9AH FK Comments/Special Interructions:							
Samplers Name: Sample # Sample Description WB3- of los Diyuny Toint Congood 3 th Floor LAT CT3-0103 Cealing the (2x4) 3 th Floor LAT CB3-0103. Cove Base language FT3 Broilus P' flour the Blade language FT3 - 0103 P' FT White language FT3 - 0103 P' FT White language FT3 - 0103 P' FT White language FT3 - 0103 Starr Tread (2007) Line HAT ST2-0103 Starr Tread (2007							
Sample # Sample Description Volume/Area (Air) Date/Time Sampled WB3-of los Dry any Torrit Comp and 3 PA FOOR HA! CT3 01/03 Certify the (2x4) 3 PCM FLOOR HAZ CB3-01/03. Cove Prase (masks) HAZ FT3 Pro1/03. Cove Prase (masks) HAZ FT3 Pro1/03. [2" Flour hile Bhack masks in AA4] FT3 - 01/03. [2" FT White masks in HAZ FT3 - 01/03. [2" FT White masks in HAZ FT3 - 01/03. [2" FT White masks in HAZ FT3 - 01/03. [2" FT White masks in HAZ ST2-01/03. Starr Tread (Roor) Line HAZ ST2-01/03. Starr Tread (Roor) Line HAZ Client Sample #(s): Relinquished (Client): [24] Date: Bol 13 [20] Time: 1630 Received (Lab): The Mask in Back Masks in No. 11 115 20 Time: 9 AM FK Comments/Special Instructions:		Check For Positive Stop -	- Clearly Identify Ho	mogenous Group			
Sample # Sample Description HA # (Bulk) Sampled WB3-ot (05) Diry any (Torit Congoud 3 PG FBOR HAI CT3-01/03: Certify tile (2x4) 3 PCM FBOR HAI CB3-01/03: Cove Base (master) FT3 B-01/03: Cove Base (master) FT3 -01/03: 12" FT white (master) FT3-01/03: 12" FT white (master) FT3-01/03: 12" FT White (master) FT3-01/03: 12" FT White (master) FT4-01/03: Strap Tread (Cor) (ine) ST2-01/03: Strap Tread (Cor) (ine) ST2-01/03: Strap Tread (Cor) (ine) FT4-01/03: Strap Tread (Cor) (ine) FT4-01/	Samplers Name:		Samplers Signa	ture:			
CT3 - 01/03 Cerling tile (2x4) 3PCIFLOOP 1/42 CB3- 01/03. COVE BASE (MASTER 1/45) TEM NOB FT3B- 01/03 12" Flour tile Bhall mastic AAY FT3-01/03 12" FT White mastic HAS FT6- 01/03 12" FT Carry mastic HAS ST1- 01/03 STAND TRAD (DOD) (INE) ST2- 01/03 STAND TRAD (DOD) (INE) ST2- 01/03 STAND TRAD (DOD) (INE) Client Sample #(s): Received (Lab): Master Date: 00/13/10 Time: 1630 Received (Lab): Master Date: 1/15/20 Time: 9AM FK Comments/Special Instructions:	Sample #	Sample Descri	ption				
CB3-01/03. Cove Base (mastin 1743 TEMNOB) FT3B-01/03 12" Flour tile Black (mastic AAY) FT3-01/03 12" FT White (mastic HAC) FT3-01/03 12" FT Cany (mastic HAC) ST1-01/03 STAIR TRANC (MOT) Line HAT ST2-01/03 STAIR TRANC (MOT) Client Sample #(s): Received (Lab): Mastic Date: 00 13 (10) Time: 1630 Received (Lab): Mastic Date: 1/15/20 Time: 9AM FK Comments/Special Interructions:	WB3-01/05 Dry	uny (Torit Com		OR HAI			
FT3B-01/03 [2" Flour file Black (mash & AAY) FT3-01/03 [2" FT White mash & HAT FT6-01/03 [2" FT Cany (mash & HAT ST2-01/03 Starr Trend (Pop) (Line) ST2-01/03 Starr Trend (Pop) (Line) Client Sample #(s): Relinquished (Client): Date: 00 13 [20 Time: 1630 Received (Lab): Mash & Date: 1/15/20 Time: 9AM FK Comments/Special Interructions: HALL-TEM NOB GOR MAST AND COMMENTS A		ing tile (2x4)	3.PCI Flore	on that			
FT3 - 01/03 12" FT White mastic FT6 01/03 12" FT Gray mastic ST 1 - 01/03 Starr Trend (Part) Line ST2- 01/03 Starr Trend (NoT) Client Sample #(s): Relinquished (Client): Received (Lab): Full Mass Date: 00/13/20 Time: 1630 Time: 9AM FK Comments/Special Interructions: HALL - TEM NOB GOR MASTIC DATE	CB3-01/03. COV-		•		TEM NOB		
FTB-01/03; 12" FT Gray (mashic 1746 (FT36) 2" ST 1-01/03 Starr Tread (Door) (Line) 177 ST2-01/03 Starr Tread (NoT) 1788 Client Sample # (s): Total # of Samples: 47 Relinquished (Client): Date: 00/13/20 Time: 1630 Received (Lab): Machine Date: 1/15/20 Time: 9AM FK Comments/Special Instructions: HAII - TEM NOB GOR MASTER AND COMMENTS AND	FT3B-01/13 12"	Flour File Blanch	klmashi				
ST 1 - 01/03 S + Thy Trend (DDF) (Ine) ST 2 - 01/03 S + A R THAN (NOT) Client Sample # (s): Relinquished (Client): Received (Lab): Received (Lab): Date: Dat	2-3/2	FT White my	stic	HAS			
ST2- or 103 StAR THAN (NOT) Client Sample # (s): Relinquished (Client): Date: 00 13 10 Time: 1630 Received (Lab): Multiple Date: 1/15/20 Time: 9AM FK Comments/Special Instructions: The NOB GR MASK AND COMMENT OF THE NOB COMENT OF THE NOB COMMENT		. / . / -	she	-	(FT36) 4		
Client Sample # (s): Relinquished (Client): Date: 0 13 10 Time: 1630 Received (Lab): 1 15 20 Time: 9AM FK Comments/Special Instructions:		1	(Line)	1447			
Received (Lab): Puls Non Date: 00 13/20 Time: 1630 Received (Lab): Puls Non Date: 1/15/20 Time: 9AM FK Comments/Special Instructions: HAII - TEM NOB GOR WASTER TO NOB.		in That	(NoT)	1408	V		
Received (Lab): My Non Date: 1/15/20 Time: 9AM FK Comments/Special Instructions: HALL - TEM NOB GOR WASTER TO LET	Client Sample # (s):	- M		Total # of Samp			
Comments/Special Instructions:	111	J. Da	te: 00 13/10				
7 -TEM NOB FOR WASKE WILL	Received (Lab): The Non-	Da					
	•	ri e	HA3 HA91	Em NOB FOR	Wastic only		

OrderID: 412000411



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

EMSL Analytical, Inc. 706 Gralin Street

Kernersville, NC 27284 PHONE: (336) 992-1025 FAX: (336) 992-4175

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	wB oilog	PRYNTAN But Compound	149	•
¥	FTZ-01/03	(2" FT LIGRAY/MASTIC Cove BASE (MASTIC 12" FT (Black & white /MASTES	HAIO TE	em woß
X	CB2-01/03	Core BASE (MASTE	HALL TI	EMNUB
X	FT 1-01/03	12" FT (Black & white mustices	HA12 TEN	(15) FOOR)
,	FTZ outo3			
	CT-01/03	Ceilm file	HAB	
	UBB- 01/05	Ceiling file Day wall Toint Compound Shuele / Fe It	HA14	(BASEnnat
	RS oilos	Shugle/Felt	NA 15 11	Em NB
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	-			
	*Comments/Special	Instructions:		

Page ____ of ___ pages



1450 Fifth Street West

North Charleston, SC 29405

EMSL Order: 412000411 Customer ID: WPCE62 Customer PO: EN197391

Project ID:

Phone: (843) 442-6658

Fax: (843) 884-9234

Received Date: 01/15/2020 9:00 AM **Analysis Date:** 01/16/2020 - 01/17/2020

Collected Date:

Project: EN197391 M82

Attention: Craig Langford

Terracon, Inc.

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	stos	Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
WB3-01-Drywall	3rd Floor - Drywall - Joint Compound	Gray Fibrous	3% Cellulose 2% Glass	95% Non-fibrous (Other)	None Detected		
412000411-0001		Heterogeneous					
WB3-01-Joint Compound	3rd Floor - Drywall - Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000411-0001A							
WB3-02-Drywall	3rd Floor - Drywall - Joint Compound	Gray Fibrous	5% Cellulose 2% Glass	93% Non-fibrous (Other)	None Detected		
412000411-0002		Homogeneous					
WB3-02-Joint Compound	3rd Floor - Drywall - Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000411-0002A							
WB3-03-Drywall	3rd Floor - Drywall - Joint Compound	Gray Fibrous Homogeneous	5% Cellulose 2% Glass	93% Non-fibrous (Other)	None Detected		
WB3-03-Joint	3rd Floor - Drywall -	White/Rust		40% Ca Carbonate	None Detected		
Compound	Joint Compound	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	None Detected		
412000411-0003A							
WB3-04-Joint Compound	3rd Floor - Drywall - Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000411-0004 No drywall present							
WB3-05-Joint Compound	3rd Floor - Drywall - Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000411-0005 No drywall present							
CT3-01	3rd Floor - Ceiling Tile - 2x4	Gray/White Fibrous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected		
412000411-0006		Heterogeneous					
CT3-02	3rd Floor - Ceiling Tile - 2x4	Gray/White Fibrous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected		
412000411-0007 OT2 02	2rd Floor Calling Tile	Heterogeneous	600/ Callulana	150/ Dodito	None Datastad		
CT3-03 412000411-0008	3rd Floor - Ceiling Tile - 2x4	Gray/White Fibrous Homogeneous	60% Cellulose 5% Min. Wool	15% Perlite 20% Non-fibrous (Other)	None Detected		
CB3-01-Cove Base	Cove Base - Mastic	Black		5% Ca Carbonate	None Detected		
412000411-0009	OUVE Dase - IVIASUL	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Detected		
CB3-01-Mastic	Cove Base - Mastic	Tan Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected		
412000411-0009A		Homogeneous					
CB3-02-Cove Base	Cove Base - Mastic	Black Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected		
412000411-0010		Homogeneous					



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	tos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
CB3-02-Mastic	Cove Base - Mastic	Tan Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
FT3B-01-Floor Tile	12" Floor Tile, Black - Mastic	Black Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0012		Homogeneous			
T3B-01-Mastic	12" Floor Tile, Black - Mastic	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
-T3B-02-Floor Tile	12" Floor Tile, Black - Mastic	Homogeneous Black Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0013		Homogeneous			
FT3B-02-Mastic	12" Floor Tile, Black - Mastic	Tan Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
412000411-0013A		Homogeneous			
FT3-01-Floor Tile	12" Floor Tile, White - Mastic	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT3-01-Mastic	12" Floor Tile, White -	Brown/Tan		8% Ca Carbonate	None Detected
412000411-0015A	Mastic	Non-Fibrous Homogeneous		92% Non-fibrous (Other)	None Detected
T3-02-Floor Tile	12" Floor Tile, White - Mastic	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
112000411-0016		Homogeneous			
T3-02-Mastic	12" Floor Tile, White - Mastic	Tan Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
112000411-0016A		Homogeneous			
FT3G-01-Floor Tile	12" Floor Tile, Gray - Mastic	Gray/White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0018	12" Floor Tilo, Croy	Homogeneous Tan		5% Ca Carbonate	None Detected
-T3G-01-Mastic	12" Floor Tile, Gray - Mastic	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Detected
FT3G-02-Floor Tile	12" Floor Tile, Gray - Mastic	Gray Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0019		Homogeneous			
FT3G-02-Mastic	12" Floor Tile, Gray - Mastic	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
412000411-0019A	O T I I.	Homogeneous			
ST1-01-Stair Tread	Stair Tread - Line	Black Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
ST1-01-Mastic	Stair Tread - Line	Tan Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
112000411-0021A		Homogeneous			
ST1-02-Stair Tread	Stair Tread - Line	Black Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412000411-0022		Homogeneous			
ST1-02-Mastic	Stair Tread - Line	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
412000411-0022A	Otalia Transida Dari	Homogeneous		F0/ O- O-t	Nec Dit 1
ST2-01-Stair Tread	Stair Tread - Rot	Black Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
ST2-01-Mastic	Stair Tread - Rot	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412000411-0024A		Homogeneous		93 /0 140H-HD1003 (Other)	



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	stos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
ST2-02-Stair Tread	Stair Tread - Rot	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
ST2-02-Mastic	Stair Tread - Rot	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412000411-0025A		Homogeneous		35 % Non-librous (Other)	
WB-01-Joint Compound	Drywall - Joint Compound	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0027 No drywall present		Homogeneous			
WB-02-Joint Compound 412000411-0028	Drywall - Joint Compound	White/Rust Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
No drywall present					
WB-03-Joint Compound 412000411-0029	Drywall - Joint Compound	White/Rust Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
No drywall present		riomogeneous			
WB-04-Drywall	Drywall - Joint Compound	Gray Fibrous	5% Cellulose 2% Glass	93% Non-fibrous (Other)	None Detected
412000411-0030		Homogeneous			
WB-04-Joint Compound	Drywall - Joint Compound	White/Rust Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0030A	Dravell loint	Homogeneous White/Rust		40% Ca Carbonate	None Detected
WB-05-Joint Compound	Drywall - Joint Compound	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	None Detected
No drywall present					
WB-06-Joint Compound	Drywall - Joint Compound	White/Rust Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0032 No drywall present		Homogeneous			
WB-07-Joint Compound	Drywall - Joint Compound	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0033 No drywall present		Homogeneous			
WB-08-Joint Compound	Drywall - Joint Compound	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0034 No drywall present	• ·	Homogeneous		,	
WB-09-Joint Compound	Drywall - Joint Compound	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0035 No drywall present		Homogeneous			
FT2-01-Floor Tile	12" FT, Lt. Gray - Mastic	Gray Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000411-0036		Homogeneous			
FT2-01-Mastic	12" FT, Lt. Gray - Mastic	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412000411-0036A ET2 02 Floor Tilo	12" ET 1+ C	Homogeneous		40% Ca Carbonate	None Detected
FT2-02-Floor Tile 412000411-0037	12" FT, Lt. Gray - Mastic	Gray Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT2-02-Mastic	12" FT, Lt. Gray - Mastic	Tan Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
412000411-0037A		Homogeneous			

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Annogrange	Non-Asbes	<u>stos</u> % Non-Fibrous	Asbestos
Sample CB2-01-Cove Base	Description Cove Base - Mastic	Appearance Black	% Fibrous	5% Ca Carbonate	% Type None Detected
412000411-0039	Cove Dase - Mastic	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Detected
CB2-01-Mastic	Cove Base - Mastic	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412000411-0039A		Homogeneous			
CB2-02-Cove Base	Cove Base - Mastic	Black Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412000411-0040		Homogeneous			
CB2-02-Mastic	Cove Base - Mastic	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412000411-0040A		Homogeneous			
FT1-01-White Floor Tile	12" FT, Black & White - Mastic	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
	400 FT Disals 0 Milita	Homogeneous		50/ On Onthounds	None Detected
FT1-01-Mastic 412000411-0042A	12" FT, Black & White - Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
FT1-01-Black Floor Tile	12" FT, Black & White	Black		40% Ca Carbonate	None Detected
412000411-0042B	- Mastic	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	None Detected
FT1-01-Mastic	12" FT, Black & White	White		5% Ca Carbonate	None Detected
412000411-0042C	- Mastic	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Detected
	12" FT, Black & White	-		20% Ca Carbonate	None Detected
FT1-01-Leveler 412000411-0042D	- Mastic	Beige Non-Fibrous Homogeneous		80% Non-fibrous (Other)	None Detected
	12" FT, Black & White	White		40% Co Corbonato	None Detected
FT1-02-White Floor Tile	- Mastic	Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT1-02-Mastic	12" FT, Black & White	Tan		5% Ca Carbonate	None Detected
412000411-0043A	- Mastic	Non-Fibrous Homogeneous		95% Non-fibrous (Other)	None Beledied
FT1-02-Black Floor Tile	12" FT, Black & White	Black		40% Ca Carbonate	None Detected
412000411-0043B	- Mastic	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	
FT1-02-Mastic/Leveler	12" FT, Black & White	Gray/Tan		5% Ca Carbonate	None Detected
412000411-0043C	- Mastic	Non-Fibrous		95% Non-fibrous (Other)	
FT1-03-Leveler	12" FT, Black & White	Homogeneous Beige		20% Ca Carbonate	None Detected
1 1 1-00-FEACICI	- Mastic	Non-Fibrous		80% Non-fibrous (Other)	INDITE DELECTED
412000411-0043D		Homogeneous			
CT-01	Ceiling Tile	Gray/White Fibrous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
412000411-0045		Heterogeneous			
CT-02	Ceiling Tile	Gray/White Fibrous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected
412000411-0046	0 " T	Heterogeneous	2004 0 " :	450/ D. III	
CT-03	Ceiling Tile	Gray/White Fibrous	60% Cellulose 5% Min. Wool	15% Perlite 20% Non-fibrous (Other)	None Detected
412000411-0047 	Dravell loint	Homogeneous	100/ Callulana	000/ Non Ebrous (Other)	None Detected
WBB-01-Drywall 412000411-0048	Drywall - Joint Compound	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
	Drywall - Joint	White/Rust		45% Ca Carbonate	None Detected
WBB-01-Joint Compound	Compound	Non-Fibrous Homogeneous		45% Ca Carbonate 55% Non-fibrous (Other)	Notic Defected
412000411-0048A					



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	Non-Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
WBB-02-Drywall	Drywall - Joint Compound	Gray Fibrous	10% Cellulose 1% Glass	89% Non-fibrous (Other)	None Detected	
412000411-0049		Homogeneous				
WBB-02-Joint Compound	Drywall - Joint Compound	White/Rust Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
412000411-0049A						
WBB-03-Drywall	Drywall - Joint Compound	Gray Non-Fibrous	8% Cellulose	92% Non-fibrous (Other)	None Detected	
		Homogeneous		100/ 0. 0. 1		
WBB-03-Joint Compound	Drywall - Joint Compound	White/Rust Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
412000411-0050A						
WBB-04-Drywall	Drywall - Joint Compound	Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected	
412000411-0051		Homogeneous				
WBB-04-Joint Compound	Drywall - Joint Compound	White Non-Fibrous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
·		Homogeneous				
412000411-0051A						
WBB-05-Joint Compound	Drywall - Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
412000411-0052 No drywall present		, and the second				
RS-01-Shingle	Shingle - Felt	Gray/Black Fibrous	5% Glass	15% Quartz 15% Ca Carbonate	None Detected	
412000411-0053		Heterogeneous		65% Non-fibrous (Other)		
RS-01-Felt	Shingle - Felt	Black Fibrous	65% Cellulose	35% Non-fibrous (Other)	None Detected	
412000411-0053A		Homogeneous				
RS-02-Shingle	Shingle - Felt	Black Fibrous	5% Glass	10% Quartz 10% Ca Carbonate	None Detected	
412000411-0054		Homogeneous		75% Non-fibrous (Other)		
RS-02-Felt	Shingle - Felt	Black Fibrous	60% Cellulose	40% Non-fibrous (Other)	None Detected	
412000411-0054A		Homogeneous				

Analyst(s)

Eric Loomis (47)

Lacy Searcy (32)

Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312



Project ID:

 Attention:
 Craig Langford
 Phone:
 (843) 442-6658

 Terracon, Inc.
 Fax:
 (843) 884-9234

 1450 Fifth Street West
 Received Date:
 01/15/2020 9:00 AM

 North Charleston, SC 29405
 Analysis Date:
 01/16/2020 - 01/18/2020

Collected Date:

Project: EN197391 M82

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
CB3-03-Cove Base 412000411-0011	Cove Base - Mastic	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
CB3-03-Mastic 412000411-0011A	Cove Base - Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT3B-03-Floor Tile 412000411-0014	12" Floor Tile, Black - Mastic	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT3B-03-Mastic 412000411-0014A	12" Floor Tile, Black - Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT3-03-Floor Tile 412000411-0017	12" Floor Tile, White - Mastic	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT3-03-Mastic 412000411-0017A	12" Floor Tile, White - Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT3G-03-Floor Tile 412000411-0020	12" Floor Tile, Gray - Mastic	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT3G-03-Mastic 412000411-0020A	12" Floor Tile, Gray - Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
ST1-03-Stair Tread 412000411-0023	Stair Tread - Line	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
ST1-03-Mastic 412000411-0023A	Stair Tread - Line	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
ST2-03-Stair Tread 412000411-0026	Stair Tread - Rot	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
ST2-03-Mastic 412000411-0026A	Stair Tread - Rot	Gray/Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/20/2020 07:22:37



1450 Fifth Street West

North Charleston, SC 29405

EMSL Order: 412000411 Customer ID: WPCE62 Customer PO: EN197391

Project ID:

Phone: (843) 442-6658 **Fax:** (843) 884-9234

Received Date: 01/15/2020 9:00 AM **Analysis Date:** 01/16/2020 - 01/18/2020

Collected Date:

Project: EN197391 M82

Attention: Craig Langford

Terracon, Inc.

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
FT2-03-Floor Tile 412000411-0038	12" FT, Lt. Gray - Mastic	Gray Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT2-03-Mastic 412000411-0038A	12" FT, Lt. Gray - Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
CB2-03-Cove Base 412000411-0041	Cove Base - Mastic	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
CB2-03-Mastic 412000411-0041A	Cove Base - Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
FT1-03-White Floor Tile 412000411-0044	12" FT, Black & White - Mastic	White Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT1-03-Mastic 412000411-0044A	12" FT, Black & White - Mastic	Tan Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT1-03-Black Floor Tile 412000411-0044B	12" FT, Black & White - Mastic	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
FT1-03-Mastic 412000411-0044C	12" FT, Black & White - Mastic	Beige Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
RS-03-Shingle 412000411-0055	Shingle - Felt	Gray/Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected
RS-03-Felt 412000411-0055A	Shingle - Felt	Black Non-Fibrous Heterogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/20/2020 07:22:37



Project ID:

 Attention:
 Craig Langford

 Terracon, Inc.
 Fax: (843) 884-9234

 1450 Fifth Street West
 Received Date:
 01/15/2020 9:00 AM

 North Charleston, SC 29405
 Analysis Date:
 01/16/2020 - 01/18/2020

Collected Date:

Project: EN197391 M82

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID Description Appearance % Matrix Material % Non-Asbestos Fibers Asbestos Types

Analyst(s)

Aaron Hartley (2) Derrick Young (20) Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumley

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/20/2020 07:22:37

OrderID: 412000960



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

412000960

EMSL ANALYTICAL, INC. 10801 SOUTHERN LOOP BLVD PINEVILLE, NC 28134

> PHONE: 704-525-2205 FAX: 704-525-2382

Company : Terracon			EMSL-Bill to: ⊠ Same ☐ Different If Bill to is Different note instructions in Comments**				
Street: 1450 Fifth Street West			Third Party Billing requires written authorization from third party				
City: North Charleston	State/P	rovince: SC	Zip/Postal Code: 29405 Country:				
Report To (Name): Craig Langford	Otaten	Tovilice. Sc	Fax #:	2. 2740		Court	uy.
Telephone #: 843.442.6658			Email Address:	crai	a lanaford@ta	rrcaon c	om.
Project Name/Number: EN1974	170	m@7_	Email Address.	Craig	g.iangiord@te	erreaon.co	om
Please Provide Results: Fax	⊠ Email	M \$ 2 I Purchase Order	·:	U.	S. State Samp	oles Take	n: SC
.,		around Time (TAT)					
3 Hours 6 Hours	24 Hrs	☐ 48 Hrs	3 Days		4 Days] 5 Days	☐ 10 Days
Apr TEM Air 3 hours/6 hours, please call ah an authorization form for this service.	ead to sch	edule.*There is a premiu	m charge for 3 Hour T	TEM AH	HERA or EPA Leve	el II TAT. Y	ou will be asked to sign
PCM - Air	Arialysis	TEM - Air	WITH LINISE'S TEITHS	and Co	TEM- Dust	i tile Allaiyti	cal Frice Guide.
☐ NIOSH 7400		☐ AHERA 40 CFI	R. Part 763		Microvac	- ASTM	5755
☐ w/ OSHA 8hr. TWA		☐ NIOSH 7402	.,		☐ Wipe - A		
PLM - Bulk (reporting limit)		☐ EPA Level II					(EPA 600/J-93/167)
PLM EPA 600/R-93/116 (<1%)		☐ ISO 10312			Soil/Rock/V		
PLM EPA NOB (<1%)		TEM - Bulk			_		(0.25% sensitivity)
Point Count		☐ TEM EPA NOB					3 (0.1% sensitivity)
☐ 400 (<0.25%) ☐ 1000 (<0.1%)		☐ NYS NOB 198.4	4 (non-friable-NY)				3 (0.1% sensitivity)
Point Count w/Gravimetric		☐ Chatfield SOP	,		And the second s		0.01% sensitivity)
☐ 400 (<0.25%) ☐ 1000 (<0.1%)		☐ TEM Mass Analysis-EPA 600 sec. 2.5			☐ EPA Protocol (Semi-Quantitative)		
☐ NYS 198.1 (friable in NY)		TEM - Water: EPA 100.2			☐ EPA Protocol (Quantitative)		ntitative)
NYS 198.6 NOB (non-friable-NY)		Fibers >10µm			Other:	North Add	
☐ NIOSH 9002 (<1%)		All Fiber Sizes	Waste Drinki	ng			
	k For P	ositive Stop - Cle	arly Identify Ho	omog	enous Group)	a france
Samplers Name:			Samplers Sign	ature:	Cur	1	
Sample#		Samuela Description			Volume/Are		Date/Time
0/4		Sample Description			HA # (Bi	uik)	Sampled
WB-964/034 Days	wall						and the same
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Client Sample # (s):		-			Total # of Sar	mples:	3
Relinquished (Client):		Data	1/29/20			,	1630
Tominguistica (Giletit).		Date:	1111				1630,
Received (Lab): Pyle NV	_	Date:	1/30/20			Time:	9AM 17X
Comments/Special Instructions:						7958	1990 9300



1450 Fifth Street West

North Charleston, SC 29405

EMSL Order: 412000960 Customer ID: WPCE62 Customer PO: EN197470

Project ID:

Phone: (843) 442-6658

Fax: (843) 884-9234

Received Date: 01/30/2020 9:00 AM

Analysis Date: 01/30/2020

Collected Date:

Project: EN197470 M82

Attention: Craig Langford

Terracon, Inc.

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
WB-01A	Drywall	Gray Fibrous	6% Cellulose 2% Glass	92% Non-fibrous (Other)	None Detected
412000960-0001		Heterogeneous			
WB-02A	Drywall	Gray	5% Cellulose	93% Non-fibrous (Other)	None Detected
		Fibrous	2% Glass		
412000960-0002		Homogeneous			
WB-03A	Drywall	Brown/Gray	2% Cellulose	97% Non-fibrous (Other)	None Detected
		Fibrous	1% Glass		
412000960-0003		Homogeneous			

Analyst(s)

Eric Loomis (2) Katherine Sluder (1) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 01/30/2020 10:41:43

OrderID: 412000410



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

412000 410

EMSL ANALYTICAL, INC. 706 GRALIN STREET KERNERSVILLE, NC 27284

> PHONE: 336-992-1025 FAX: 336-992-4175

Company : Terracon			Bill to: Same Dif		
Street: 1450 Fifth Street W	Third Party Billing requires written authorization from third party				
	State/Province: SC	Zip/Postal Code: 29405 Country: US			
City: North Charleston	State/Province: SC		Couri	try. US	
Report To (Name): Craig Langford		Fax #:			
Telephone #: 843-442-6658	1 10	Email Address: craig	g.langford@terracon.c	om	
Project Name/Number: FN (97					
Please Provide Results:	Email Purchase Orde		S. State Samples Take	n: SC	
3 Hours 6 Hours	24 Hrs 48 Hrs	Options* – Please Che	ck 4 Days	☐ 10 Days	
*For TEM Air 3 hours/6 hours, please call ah					
an authorization form for this service.	Analysis completed in accordant	ce with EMSL's Terms and Cor	nditions located in the Analyt	ical Price Guide.	
PCM - Air	TEM - Air		TEM- Dust		
☐ NIOSH 7400	AHERA 40 CF	R, Part 763	Microvac - ASTM		
w/ OSHA 8hr. TWA	☐ NIOSH 7402		☐ Wipe - ASTM D64		
PLM - Bulk (reporting limit)	☐ EPA Level II			(EPA 600/J-93/167)	
☑ PLM EPA 600/R-93/116 (<1%)	☐ ISO 10312		Soil/Rock/Vermiculit		
☐ PLM EPA NOB (<1%)	TEM - Bulk		A STATE OF THE PARTY OF THE PAR	A (0.25% sensitivity)	
Point Count	TEM EPA NO			B (0.1% sensitivity)	
☐ 400 (<0.25%) ☐ 1000 (<0.1%)		.4 (non-friable-NY)		B (0.1% sensitivity)	
Point Count w/Gravimetric	Chatfield SOP			C (0.01% sensitivity)	
☐ 400 (<0.25%) ☐ 1000 (<0.1%)		alysis-EPA 600 sec. 2.5	☐ EPA Protocol (Semi-Quantitative)		
NYS 198.1 (friable in NY)	TEM - Water: EP	A 100.2	☐ EPA Protocol (Quantitative)		
NYS 198.6 NOB (non-friable-NY)	Fibers >10µm	Waste Drinking	Other:		
☐ NIOSH 9002 (<1%)	All Fiber Sizes	Waste Drinking	nking		
☐ Chec	ck For Positive Stop - Cl	early Identify Homog	enous Group		
Samplers Name:		Samplers Signature:			
Sample #	Sample Description	n	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled	
DC. 01/03 Dove	CANIK		HAI TE	n NOB	
wer oilos Wind	low EANIX	120	HAZ		
18001 RM-01/23 Root	Material / Fe	it?	14A3		
DM- 0:/03 Duct	MASTIC		WAY		
		9	/		
			-		
1					
	A				
Client Sample # (s):	-		Total # of Samples:	12	
Relinquished (Client):	Date:	2/14/20	Time	: 1635	
Received (Lab): Yule Nison	Date:	1/15/20	Time	: 9AH FX	
Comments/Special Instructions:	Date.	1110.00			
lun TEM NUB Con	0. 000 +1.	¥ 1	7909 934	6 8441	
LUN I'M NUR CON	(which I is				



1450 Fifth Street West

North Charleston, SC 29405

EMSL Order: 412000410 Customer ID: WPCE62 Customer PO: EN197391

Project ID:

Phone: (843) 442-6658

Fax: (843) 884-9234

Received Date: 01/15/2020 9:00 AM

Analysis Date: 01/15/2020

Collected Date:

Project: EN197391 M82

Attention: Craig Langford

Terracon, Inc.

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos			Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
DC-01 #12000410-0001	Door Caulk	White Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile	
DC-02	Door Caulk	White Non-Fibrous		96% Non-fibrous (Other)	4% Chrysotile	
112000410-0002		Homogeneous				
WC-01	Window Caulk	Brown Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected	
412000410-0004		Homogeneous				
WC-02	Window Caulk	Brown Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected	
112000410-0005		Homogeneous				
RM-01-Roofing	Roof Material - Felt	Black Fibrous	10% Synthetic	15% Ca Carbonate 4% Mica	None Detected	
412000410-0007	Doof Meterial - Eath	Homogeneous	100/ Class	71% Non-fibrous (Other)	None Detected	
RM-01-Felt #12000410-0007A	Roof Material - Felt	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected	
RM-02-Roofing	Roof Material - Felt	Black	5% Glass	10% Ca Carbonate	None Detected	
412000410-0008	17001 Malellai - Fell	Fibrous Homogeneous	J /v Glass	85% Non-fibrous (Other)	None Detected	
RM-02-Felt	Roof Material - Felt	Black	5% Cellulose	95% Non-fibrous (Other)	None Detected	
112000410-0008A		Fibrous Homogeneous		,		
RM-02-Insulation	Roof Material - Felt	Brown/White	80% Cellulose	10% Perlite	None Detected	
412000410-0008B		Fibrous Homogeneous		10% Non-fibrous (Other)		
RM-03-Insulation	Roof Material - Felt	Brown/White Fibrous	80% Cellulose	10% Perlite 10% Non-fibrous (Other)	None Detected	
412000410-0008C		Homogeneous				
DM-01-Mastic	Duct Mastic	Tan Non-Fibrous	2% Fibrous (Other)	98% Non-fibrous (Other)	None Detected	
112000410-0010		Homogeneous				
DM-01-Wrap	Duct Mastic	Brown/Silver Fibrous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected	
412000410-0010A	Don't Mar "	Heterogeneous	000/ 01-	400/ Nov. Show (Off.)	Non-Bit 1	
DM-01-Insulation 412000410-0010B	Duct Mastic	Yellow Fibrous	90% Glass	10% Non-fibrous (Other)	None Detected	
	Dust Mastis	Homogeneous	E0/ Class	040/ Non fibratio (Others)	None Detected	
DM-02-Mastic	Duct Mastic	White Non-Fibrous Homogeneous	5% Glass 4% Fibrous (Other)	91% Non-fibrous (Other)	None Detected	
DM-02-Wrap	Duct Mastic	Brown/Silver	10% Cellulose	75% Non-fibrous (Other)	None Detected	
DIVI-UZ-VVI AP 412000410-0011A	Duct Mastic	Fibrous Homogeneous	15% Glass	75/6 Nort-Ilbrous (Other)	None Detected	
DM-02-Insulation	Duct Mastic	Yellow Fibrous	98% Glass	2% Non-fibrous (Other)	None Detected	
412000410-0011B		Homogeneous				



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
DM-03-Wrap	Duct Mastic	Brown/Silver Fibrous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
412000410-0011C		Homogeneous			

Analyst(s)

Gloriana Ramirez (7) Sarah Breneman (10) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312



Project ID:

Collected Date:

 Attention:
 Craig Langford
 Phone:
 (843) 442-6658

 Terracon, Inc.
 Fax:
 (843) 884-9234

1450 Fifth Street West Received Date: 01/15/2020 9:00 AM

North Charleston, SC 29405 Analysis Date: 01/16/2020

Project: EN197391 M82

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
DC-03 412000410-0003	Door Caulk				
Positive	Stop (Not Analyzed)				
WC-03 412000410-0006	Window Caulk	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
RM-03-Roofing 412000410-0009	Roof Material - Felt	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
RM-03-Felt 412000410-0009A	Roof Material - Felt	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
DM-03 412000410-0012	Duct Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)	
Katherine Sluder (4)	

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumley

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/16/2020 14:56:07

OrderID: 412000396



Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

412000396

EMSL ANALYTICAL, INC. 706 GRALIN STREET KERNERSVILLE, NC 27284 336-992-1025

Company : Terracon		EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**			
Street: 1450 Fifth Street West		Third Party Billing requires written authorization from third party			
City: North Charleston	Zip/Postal Code: 29405 Country:				
Report To (Name): Craig Langford	State/Province: sc	Fax #:	37		
Telephone #: 843-442-6658		Email Address: craig.lang	oford@terracon.com		
Project Name/Number: EN 197 39	1 m82	Cinali Address. Craig.lang	giord@terracon.com		
Please Provide Results: Fax Em		05: 116 64	to Compley Token		
	naround Time (TAT) Opt		ate Samples Taken:		
3 Hours 6 Hours 24 Ho		3 Days 4 Days	☐ 5 Days ☐	10 Days	
		ms and Conditions located in the Pri		io buyo	
Matrix	Method	Instrument	Reporting Limit	Check	
Chips ☐ mg/cm² ☐ % by wt.	SW846-7000B/7420 or AOAC 974.02	Flame Atomic Absorption	0.01%	X	
Air	NIOSH 7082	Flame Atomic Absorption	4 μg/filter		
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter		
	NIOSH 7300 modified	ICP-AES	0.5 µg/filter		
Wipe* ☐ ASTM ☐ non ASTM	SW846-7000B/7420	Flame Atomic Absorption	10 μg/wipe		
*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B or C	ICP-AES	0.5 μg/wipe		
TCLP	SW846-1311/7420/SM 3111	IB Flame Atomic Absorption	0.4 mg/L (ppm)		
	SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)		
Soil	SW846-7420	Flame Atomic Absorption	40 mg/kg (ppm)		
	SW846-7421 SW86-6010B or C	Graphite Furnace AA ICP-AES	0.3 mg/kg (ppm) 1 mg/kg (ppm)		
Wastewater	SM3111B or SW846-7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)		
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)		
	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)		
Drinking Water	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)		
Other:	Pr	eservation Method (Water)			
Name of Sampler:	Si	gnature of Sampler:			
Sample # Loca		Volume/Area	Date/Time S	Sampled	
	emp	7		•	
	RAI			1	
Ph- 03 Stair case	(Int)				
Phoy Door Fran		, ,			
	Ent stain)				
Ph-9004 Ext Stanz					
Client Sample #'s	1	Total # of Sa	imples:		
Relinquished (Client):	Date: 7	liyho Time:	1640		
Received (Lab): Yhule who	Date:	15 20 Time:	9AM F/X		
Comments:			7909 9346 8	141	



EMSL Analytical, Inc.

10801 Southern Loop Blvd, Pineville, NC 28134

(704) 525-2205 / (704) 525-2382

http://www.EMSL.com charlottelab@emsl.com EMSL Order: 412000396 CustomerID: WPCE62 CustomerPO:

EN197391

ProjectID:

Attn: Craig Langford Terracon, Inc. 1450 Fifth Street West North Charleston, SC 29405

(843) 884-1234 Phone: Fax: (843) 884-9234 Received: 01/15/20 9:00 AM

Collected:

Project: EN197391 M82

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

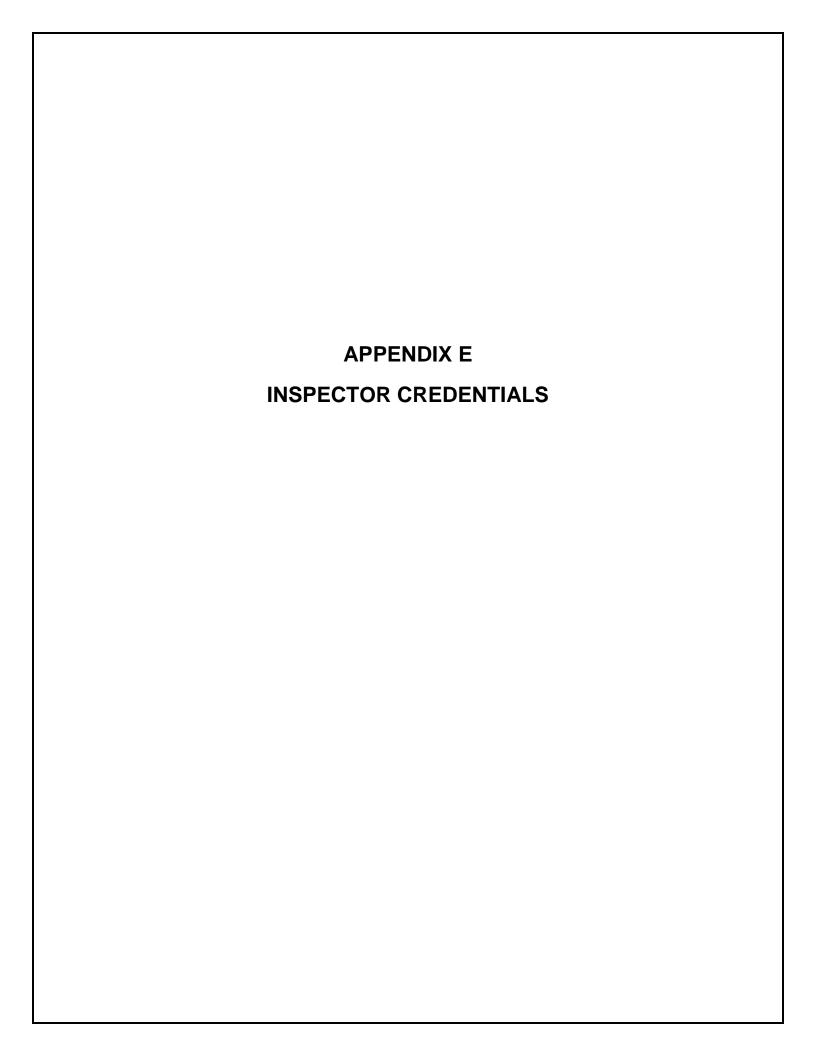
Client Sample Description	Lab ID Collect	ed Analyzed	Weight	Lead Concentration
Pb-01	412000396-0001	1/16/2020	0.2028 g	0.12 % wt
	Site: White Column			
Pb-02	412000396-0002	1/16/2020	0.2026 g	0.58 % wt
	Site: Exterior Rail			
Pb-03	412000396-0003	1/16/2020	0.2078 g	1.1 % wt
	Site: Staircase (Int.)			
Pb-04	412000396-0004	1/16/2020	0.2422 g	0.26 % wt
	Site: Door Frame			
Pb-05	412000396-0005	1/16/2020	0.2094 g	<0.0096 % wt
	Site: Hand Rail (Ext. Stair)			
Pb-06	412000396-0006	1/16/2020	0.2592 g	19 % wt
	Site: Ext. Stair			

Kyle Collins, Technical Manager or other approved signatory

Kyle N Collins

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC AIHA-LAP, LLC - ELLAP 192283



CRAIG C. LANGFORD

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL – ASBESTO SECTION

CONSULTANT/PROJECT DESIGN – PD-00032_EXP 07/10/20 CONSULTANT/BUILDING INSPECTOR ASB-22775_EXP 07/09/20 AIR SAMPLER/MONITOR ASB-22599_EXP 07/08/20 SUPERVISOR SA-03094_EXP 07/08/20

